

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	05/18/2015 05/18/2015	Michael Pitta

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD1001_01_s _ 2012_1				
Action/Comments					
Inspector Comments: The LMA has flood fight supplies on hand at their district office.					

No Photos

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD1001_01_s _ 2012_2				
Action/Comments					
Inspector Comments: The LMA participates in the flood fight class put on by RD784 and DWR annually.					

No Photos

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD1001_01_s _ 2012_3				
Action/Comments					
Inspector Comments: The LMA has a copy of the O&M manuals at the district office.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	05/18/2015 05/18/2015	Michael Pitta

LM Start	0.33	Rating **	M	Issue No.	8
LM End	4.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.976715 °	38.970518 °
				-121.473997 °	-121.534452 °
DWR ID	DWR_RD1001_01_s _ 2015_8				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD1001_36_8_20150521_00008.jpg



View of the vegetation on the waterside of the levee facing downstream.

LM Start	0.98	Rating **	M	Issue No.	14
LM End	1.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.974337 °	38.970678 °
				-121.485303 °	-121.493999 °
DWR ID	DWR_RD1001_01_s _ 2015_14				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	1.96	Rating **	M	Issue No.	13
LM End	2.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.971139 °	38.968430 °
				-121.501908 °	-121.514998 °
DWR ID	DWR_RD1001_01_s _ 2015_13				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	05/18/2015 05/18/2015	Michael Pitta

LM Start	3.32	Rating **	M	Issue No.	10
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.965528 °	38.965173 °
				-121.524716 °	-121.528771 °
DWR ID	DWR_RD1001_01_s _ 2015_10				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
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Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	05/18/2015 05/18/2015	Michael Pitta

LM Start	0.01	Rating **	M	Issue No.	5
LM End	3.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.971358 °	°
				-121.474022 °	°
DWR ID	DWR_RD1001_02_s _ 2015_5				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD1001_35_5_20150521_00011.jpg



View of the vegetatin on the landside of the levee facing downstream.

LM Start	0.01	Rating **	M	Issue No.	6
LM End	3.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.971358 °	°
				-121.474023 °	°
DWR ID	DWR_RD1001_02_s _ 2015_6				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.27	Rating **	M	Issue No.	4
LM End	0.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.974323 °	38.974323 °
				-121.476442 °	-121.476442 °
DWR ID	DWR_RD1001_02_f _ 2014_4				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Animal hole on waterward levee slope near the crown. Hole is approximately 1' in diameter and 8" deep.					

Photo 1 of 2 : SP_2015_RD1001_35_4_20150401_00001.jpg



This photo was taken from the levee crown facing east looking down the waterward slope at an animal burrow. Fall 2014.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	05/18/2015 05/18/2015	Michael Pitta

LM Start	0.27	Rating **	M	Issue No.	4 (cont)	
LM End	0.27	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			38.974323 °	38.974323 °	
				-121.476442 °	-121.476442 °	
DWR ID	DWR_RD1001_02_f_2014_4					
Action/Comments						
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comments: Animal hole on waterward levee slope near the crown. Hole is approximately 1' in diameter and 8" deep.						

Photo 2 of 2 : SP_2015_RD1001_35_4_20150401_00002.jpg



Another picture of the animal burrow. Fall 2014.

LM Start	1.11	Rating **	M	Issue No.	8
LM End	1.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.971547 °	38.971547 °
				-121.490968 °	-121.490968 °
DWR ID	DWR_RD1001_02_s_2015_8				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.33	Rating **	M	Issue No.	1
LM End	1.36	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.969740 °	38.969640 °
				-121.494327 °	-121.494829 °
DWR ID	DWR_RD1001_02_f_2014_1				
Action/Comments					
Inspector Comments: 2011 - New erosion site. Steep eroding slope. Fairly old scarp with vegetation growth. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: YAS_1-7_L]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	05/18/2015 05/18/2015	Michael Pitta

LM Start	0.01	Rating **	M	Issue No.	6
LM End	12.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.006571 °	38.941041 °
				-121.375136 °	-121.567624 °
DWR ID	DWR_RD1001_03_s_2015_6				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD1001_37_6_20150521_00033.jpg



View of the vegetation on the landside of the levee facing downstream.

LM Start	0.01	Rating **	M	Issue No.	11
LM End	12.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.006571 °	38.941068 °
				-121.375138 °	-121.567616 °
DWR ID	DWR_RD1001_03_s_2015_11				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.06	Rating **	M	Issue No.	14
LM End	0.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.006611 °	39.006611 °
				-121.376181 °	-121.376181 °
DWR ID	DWR_RD1001_03_s_2015_14				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP_2015_RD1001_37_14_20150521_00034.jpg



View of the trees on the waterside of the levee facing downstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
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Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	05/18/2015 05/18/2015	Michael Pitta

LM Start	0.11	Rating **	M	Issue No.	2
LM End	0.11	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.006569 °	39.006569 °
				-121.377037 °	-121.377037 °
DWR ID	DWR_RD1001_03_f_2013_2				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Rutting caused by vehicles driving up the landward levee slope.					

Photo 1 of 2 : SP_2015_RD1001_37_2_20150401_00002.jpg



This photo was taken from the crown of the levee facing west looking down the slope at rutting caused by vehicles driving up the landward levee slope.

LM Start	0.11	Rating **	M	Issue No.	2 (cont)
LM End	0.11	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP_2015_RD1001_37_2_20150521_00035.jpg



View of the rutting on the landside of the levee facing upstream.

LM Start	0.14	Rating **	M	Issue No.	23
LM End	0.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.006351 °	39.006351 °
				-121.377313 °	-121.377313 °
DWR ID	DWR_RD1001_03_s_2015_23				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : SP_2015_RD1001_37_23_20150521_00036.jpg



View of the rutting on the landside of the levee from the toe facing downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	05/18/2015 05/18/2015	Michael Pitta

LM Start	0.31	Rating **	M	Issue No.	18
LM End	0.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.006336 °	39.006336 °
				-121.380524 °	-121.380524 °
DWR ID	DWR_RD1001_03_f_2014_18				
Action/Comments					
Tree or limb					

Photo 1 of 1 : SP_2015_RD1001_37_18_20150401_00010.jpg



This photo was taken from the levee crown facing west looking down the landward slope at a fallen tree that needs to be removed. Fall 2014.

LM Start	0.84	Rating **	M	Issue No.	13
LM End	0.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.006429 °	39.006429 °
				-121.390363 °	-121.390363 °
DWR ID	DWR_RD1001_03_f_2013_13				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	0.93	Rating **	M	Issue No.	15
LM End	0.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.006609 °	39.006609 °
				-121.392030 °	-121.392030 °
DWR ID	DWR_RD1001_03_f_2013_15				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	05/18/2015 05/18/2015	Michael Pitta

LM Start	1.11	Rating **	M	Issue No.	16
LM End	1.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.005980 °	39.005980 °
				-121.395210 °	-121.395210 °
DWR ID	DWR_RD1001_03_f_2013_16				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.50	Rating **	M	Issue No.	24
LM End	1.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.002421 °	39.002421 °
				-121.400751 °	-121.400751 °
DWR ID	DWR_RD1001_03_s_2015_24				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

LM Start	1.87	Rating **	A/W	Issue No.	28
LM End	1.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.998608 °	38.998608 °
				-121.405570 °	-121.405570 °
DWR ID	DWR_RD1001_03_s_2013_28				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 2 : SP_2015_RD1001_37_28_20150401_00017.jpg



Damage caused by vehicles Spring 2013

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Levee Inspections**

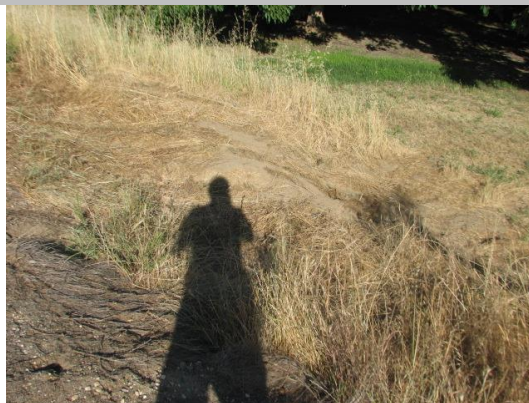
Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	05/18/2015 05/18/2015	Michael Pitta

LM Start	1.87	Rating **	A/W	Issue No.	28 (cont)
LM End	1.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.998608 °	38.998608 °
				-121.405570 °	-121.405570 °
DWR ID	DWR_RD1001_03_s_2013_28				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 2 of 2 : SP_2015_RD1001_37_28_20150401_00018.jpg



Damage caused by vehicles. Spring 2013

LM Start	1.87	Rating **	A/W	Issue No.	29
LM End	1.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.998608 °	38.998608 °
				-121.405570 °	-121.405570 °
DWR ID	DWR_RD1001_03_s_2013_29				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 2 : SP_2015_RD1001_37_29_20150401_00019.jpg



Damage caused by vehicles going around the gate. Spring 2013

LM Start	1.87	Rating **	A/W	Issue No.	29 (cont)
LM End	1.87	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2015_RD1001_37_29_20150401_00020.jpg



Damage caused by vehicles. Spring 2013

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	05/18/2015 05/18/2015	Michael Pitta

LM Start	2.28	Rating **	A/W	Issue No.	30
LM End	2.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.996302 °	38.996302 °
				-121.412285 °	-121.412285 °
DWR ID	DWR_RD1001_03_s _ 2013_30				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : SP_2015_RD1001_37_30_20150401_00021.jpg



Damage caused by vehicles. Spring 2013

LM Start	2.41	Rating **	A/W	Issue No.	33
LM End	2.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.995895 °	38.995895 °
				-121.414622 °	-121.414622 °
DWR ID	DWR_RD1001_03_s _ 2015_33				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	2.57	Rating **	A/W	Issue No.	34
LM End	2.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.995642 °	38.995642 °
				-121.417626 °	-121.417626 °
DWR ID	DWR_RD1001_03_s _ 2015_34				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	05/18/2015 05/18/2015	Michael Pitta

LM Start	4.82	Rating **	A/W	Issue No.	910
LM End	4.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.990773 °	38.990773 °
				-121.458203 °	-121.458203 °
DWR ID	DWR_RD1001_03_s _ 2012_910				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_RD1001_37_910_20150401_00031.jpg



RD 1001 Unit 3 - L/S slope -Elderberries

LM Start	6.47	Rating **	M	Issue No.	38
LM End	6.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.984010 °	38.983955 °
				-121.487420 °	-121.488083 °
DWR ID	DWR_RD1001_03_s _ 2013_38				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : SP_2015_RD1001_37_38_20150401_00025.jpg



Erosion caused by run off from the roadway. Spring 2013

LM Start	7.21	Rating **	M	Issue No.	19
LM End	7.30	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.982737 °	38.982572 °
				-121.501144 °	-121.502797 °
DWR ID	DWR_RD1001_03_f _ 2014_19				
Action/Comments					
Inspector Comments: 2008 - Sandy/silty banks with rotational slab failures creating near vertical bank with pop-outs due to tree failures. Narrow berm. 2013: No observed changes. [2013 Site ID: BER_5-7_L]					

Photo 1 of 1 : SP_2015_RD1001_37_19_20150401_00011.jpg



USACE 2013 Photo #1

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	05/18/2015 05/18/2015	Michael Pitta

LM Start	10.10	Rating **	M	Issue No.	46
LM End	10.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.968090 °	38.968090 °
				-121.543568 °	-121.543568 °
DWR ID	DWR_RD1001_03_s_2015_46				
Action/Comments					
Prunings					

No Photos

LM Start	10.36	Rating **	M	Issue No.	17
LM End	10.40	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.964583 °	38.964010 °
				-121.544967 °	-121.545228 °
DWR ID	DWR_RD1001_03_f_2014_17				
Action/Comments					
Inspector Comments: 2011 - Large section of bank has slumped off. RD has flagged and appears to be watching. 2012 - Slopes slightly steeper. 2013: Minor new erosion. [2013 Site ID: BER_2-5_L]					

Photo 1 of 1 : SP_2015_RD1001_37_17_20150401_00009.jpg



USACE 2013 Photo #1

LM Start	10.58	Rating **	M	Issue No.	47
LM End	10.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.961602 °	38.961602 °
				-121.546464 °	-121.546464 °
DWR ID	DWR_RD1001_03_s_2015_47				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	05/18/2015 05/18/2015	Michael Pitta

LM Start	11.08	Rating **	M	Issue No.	10
LM End	11.16	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.955070 °	38.954227 °
				-121.549528 °	-121.550592 °
DWR ID	DWR_RD1001_03_f_2014_10				
Action/Comments					
Inspector Comments: 2011 - Large slumped sections of bank. 2012 - Slopes slightly steeper. 2013: No observed changes. [2013 Site ID: BER_1-9_L]					

Photo 1 of 1 : SP_2015_RD1001_37_10_20150401_00008.jpg



USACE 2013 Photo #1

LM Start	11.23	Rating **	M	Issue No.	22
LM End	11.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.953367 °	38.953025 °
				-121.551428 °	-121.551808 °
DWR ID	DWR_RD1001_03_s_2012_22				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_RD1001_37_22_20150401_00014.jpg



RD 1001 Unit 3 - L/S slope -Elderberries

LM Start	11.59	Rating **	A/W	Issue No.	25
LM End	11.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.951302 °	38.950960 °
				-121.556872 °	-121.560717 °
DWR ID	DWR_RD1001_03_s_2013_25				
Action/Comments					
Environmental Requirements.					

Photo 1 of 1 : SP_2015_RD1001_37_25_20150401_00015.jpg



Revegetation site in progress. Spring 2013

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	05/18/2015 05/18/2015	Michael Pitta

LM Start	12.07	Rating **	M	Issue No.	1
LM End	12.16	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.947591 °	38.946477 °
				-121.563390 °	-121.564094 °
DWR ID	DWR_RD1001_03_f_2014_1				
Action/Comments					
Inspector Comments: 2006 - Multiple rotational failures in the berm. Erosion is into the levee toe and lower slope. Tension cracks extensive at top of bank. Cohesive toe creates a bench on which failures occur. 2007 - Still steep bank with some berm with pistol-butted reeds. 2012 - Site extended upstream due to additional slumping. Slopes slightly steeper. 2013: No observed changes. [2013 Site ID: BER_0-8_L]					

Photo 1 of 1 : SP_2015_RD1001_37_1_20150401_00001.jpg



USACE 2013 Photo #1

LM Start	12.18	Rating **	M	Issue No.	27
LM End	12.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.946248 °	38.946248 °
				-121.564220 °	-121.564220 °
DWR ID	DWR_RD1001_03_s_2012_27				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_RD1001_37_27_20150401_00016.jpg



RD 1001 Unit 3 - L/S slope -Elderberries @ toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	05/18/2015 05/19/2015	Michael Pitta

LM Start	0.00	Rating **	M	Issue No.	33
LM End	0.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.941024 °	38.938036 °
				-121.567632 °	-121.567712 °
DWR ID	DWR_RD1001_04_s _ 2015_33				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD1001_38_33_20150521_00037.jpg



View of the vegetation on the landside of the levee facing downstream.

LM Start	0.01	Rating **	M	Issue No.	34
LM End	0.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.941019 °	38.938033 °
				-121.567629 °	-121.567714 °
DWR ID	DWR_RD1001_04_s _ 2015_34				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.21	Rating **	A/W	Issue No.	35
LM End	0.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.938031 °	38.933216 °
				-121.567711 °	-121.567082 °
DWR ID	DWR_RD1001_04_s _ 2015_35				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	05/18/2015 05/19/2015	Michael Pitta

LM Start	0.21	Rating **	A/W	Issue No.	36
LM End	0.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.938029 °	38.933216 °
				-121.567709 °	-121.567082 °
DWR ID	DWR_RD1001_04_s _ 2015_36				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.55	Rating **	M	Issue No.	37
LM End	13.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.933216 °	38.781146 °
				-121.567083 °	-121.605664 °
DWR ID	DWR_RD1001_04_s _ 2015_37				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.55	Rating **	M	Issue No.	38
LM End	13.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.933216 °	38.781146 °
				-121.567084 °	-121.605664 °
DWR ID	DWR_RD1001_04_s _ 2015_38				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	05/18/2015 05/19/2015	Michael Pitta

LM Start	1.70	Rating **	C	Issue No.	16
LM End	1.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.916965 °	38.916965 °
				-121.570147 °	-121.570147 °
DWR ID	DWR_RD1001_04_f_2014_16				
Action/Comments					
Tree or limb					

No Photos

LM Start	2.05	Rating **	A/W	Issue No.	39
LM End	2.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.912664 °	38.912664 °
				-121.572928 °	-121.572928 °
DWR ID	DWR_RD1001_04_s_2015_39				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

LM Start	3.09	Rating **	C	Issue No.	41
LM End	3.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.900441 °	38.900441 °
				-121.583093 °	-121.583093 °
DWR ID	DWR_RD1001_04_f_2013_41				
Action/Comments					
Tree or limb					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	05/18/2015 05/19/2015	Michael Pitta

LM Start	5.80	Rating **	M	Issue No.	8
LM End	5.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.874113 °	38.872373 °
				-121.615380 °	-121.616504 °
DWR ID	DWR_RD1001_04_f_2014_8				
Action/Comments					
Inspector Comments: 2011 - Erosion pockets from tree popouts. Sections of the lower bank have slumped off. 2013: Scallops from tree popouts no longer visible on site. Minor new erosion at the middle of the bank. [2013 Site ID: FHR_6-6_L]					

Photo 1 of 1 : SP_2015_RD1001_38_8_20150401_00008.jpg



USACE 2013 Photo #1

LM Start	6.42	Rating **	M	Issue No.	7
LM End	6.51	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.865875 °	38.864706 °
				-121.619983 °	-121.620813 °
DWR ID	DWR_RD1001_04_f_2014_7				
Action/Comments					
Inspector Comments: 2011 - Tall slumping sections. Scour around trees has exposed most of the roots. 2013: No observed changes. [2013 Site ID: FHR_6-0_L]					

Photo 1 of 1 : SP_2015_RD1001_38_7_20150401_00007.jpg



USACE 2013 Photo #1

LM Start	6.57	Rating **	M	Issue No.	6
LM End	6.77	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.863946 °	38.861558 °
				-121.621388 °	-121.623316 °
DWR ID	DWR_RD1001_04_f_2014_6				
Action/Comments					
Inspector Comments: 2011 - Large slumped sections on the lower bank. 2012 - New cracks observed. 2013: No observed changes. [2013 Site ID: FHR_5-8_L]					

Photo 1 of 1 : SP_2015_RD1001_38_6_20150401_00006.jpg



USACE 2013 Photo #1

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	05/18/2015 05/19/2015	Michael Pitta

LM Start	6.80	Rating **	A/W	Issue No.	28
LM End	6.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.861071 °	38.861071 °
				-121.623332 °	-121.623332 °
DWR ID	DWR_RD1001_04_s _ 2013_28				
Action/Comments					
Environmental Requirements.					

Photo 1 of 1 : SP_2015_RD1001_38_28_20150401_00024.jpg



Revegetation site. Spring 2013

LM Start	6.87	Rating **	M	Issue No.	18
LM End	6.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.860127 °	38.860127 °
				-121.624077 °	-121.624077 °
DWR ID	DWR_RD1001_04_s _ 2015_18				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	7.47	Rating **	M	Issue No.	5
LM End	7.86	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.852394 °	38.848004 °
				-121.629231 °	-121.630873 °
DWR ID	DWR_RD1001_04_f _ 2014_5				
Action/Comments					
Inspector Comments: 2000 - Steep bank off berm with some slumps and fallen trees, continued erosion. 2002 - Site lengthened upstream and downstream due to vertical bank along most of the reach. 2010 - Site extended upstream. 2011 - Minimal new erosion. 2012 - Site extended on the upstream end, new tree pop-out, and bank erosion continues to worsen. 2013: Minor new erosion at the toe and top of bank. [2013 Site ID: FHR_5-0_L]					

Photo 1 of 1 : SP_2015_RD1001_38_5_20150401_00005.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	05/18/2015 05/19/2015	Michael Pitta

LM Start	7.56	Rating **	M	Issue No.	42
LM End	7.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.851080 °	38.851080 °
				-121.629217 °	-121.629217 °
DWR ID	DWR_RD1001_04_s_2015_42				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	8.64	Rating **	M	Issue No.	4
LM End	8.97	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.836966 °	38.831498 °
				-121.634128 °	-121.636371 °
DWR ID	DWR_RD1001_04_f_2014_4				
Action/Comments					
Inspector Comments: 2006 - Sandy, silty bank with intermittent pockets of erosion. Rotational failure and tree pop outs are most of the problem. Some upper slope fluvial erosion. 2010 - Site extended upstream. The lower Feather may benefit from a regional repair. 2011 - Site combined with 3.6. Minimal new erosion. 2013: New erosion observed at bank toe. Trees on site now have exposed roots. [2013 Site ID: FHR_3-8_L]					

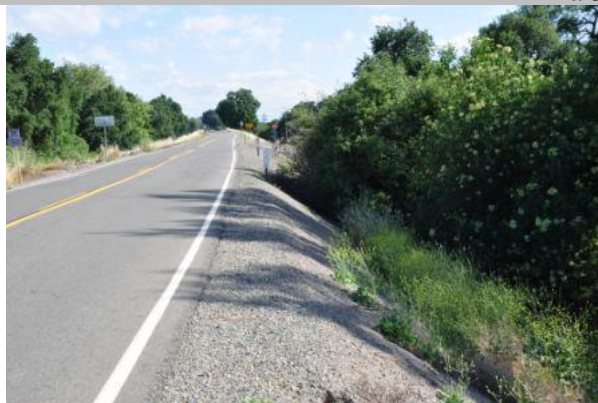
Photo 1 of 1 : SP_2015_RD1001_38_4_20150401_00004.jpg



USACE 2013 Photo #1

LM Start	8.65	Rating **	M	Issue No.	12
LM End	8.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.835766 °	38.834778 °
				-121.633966 °	-121.634316 °
DWR ID	DWR_RD1001_04_s_2012_12				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_RD1001_38_12_20150401_00010.jpg



RD 1001 Unit 4 - W/S slope - Elderberries

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	05/18/2015 05/19/2015	Michael Pitta

LM Start	9.44	Rating **	M	Issue No.	45
LM End	9.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.825008 °	38.825008 °
				-121.639361 °	-121.639361 °
DWR ID	DWR_RD1001_04_s _ 2015_45				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	9.92	Rating **	M	Issue No.	46
LM End	9.92	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.818287 °	38.818287 °
				-121.638894 °	-121.638894 °
DWR ID	DWR_RD1001_04_s _ 2015_46				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	10.72	Rating **	M	Issue No.	47
LM End	10.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.807638 °	38.807638 °
				-121.633675 °	-121.633675 °
DWR ID	DWR_RD1001_04_s _ 2015_47				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	05/18/2015 05/19/2015	Michael Pitta

LM Start	10.88	Rating **	M	Issue No.	48
LM End	10.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.805312 °	38.805312 °
				-121.633300 °	-121.633300 °
DWR ID	DWR_RD1001_04_s _ 2015_48				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	11.07	Rating **	M	Issue No.	22
LM End	11.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.802508 °	38.802508 °
				-121.632862 °	-121.632862 °
DWR ID	DWR_RD1001_04_s _ 2012_22				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_RD1001_38_22_20150401_00017.jpg



RD 1001 Unit 4 - L/S slope - Elderberries

LM Start	11.10	Rating **	M	Issue No.	49
LM End	11.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.802092 °	38.802092 °
				-121.632753 °	-121.632753 °
DWR ID	DWR_RD1001_04_s _ 2015_49				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	05/18/2015 05/19/2015	Michael Pitta

LM Start	11.19	Rating **	M	Issue No.	2
LM End	11.44	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.800920 °	38.798165 °
				-121.633050 °	-121.631939 °
DWR ID	DWR_RD1001_04_f_2014_2				
Action/Comments					
Inspector Comments: 2000 - Site is relatively stable except for some toe erosion at the upstream end, recommend monitoring the upstream end. 2004 - Some new block failures (10ft deep) at the toe of the upstream end. 2007 - Some minor new slumping at the waterline. 2013: Minor new erosion along the toe of the bank. [2013 Site ID: FHR_1-0_L]					

Photo 1 of 1 : SP_2015_RD1001_38_2_20150401_00002.jpg



USACE 2013 Photo #1

LM Start	11.20	Rating **	M	Issue No.	51
LM End	11.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.800697 °	38.800697 °
				-121.632382 °	-121.632382 °
DWR ID	DWR_RD1001_04_s_2015_51				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	11.24	Rating **	M	Issue No.	23
LM End	11.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.800112 °	38.800112 °
				-121.632242 °	-121.632242 °
DWR ID	DWR_RD1001_04_s_2012_23				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_RD1001_38_23_20150401_00018.jpg



RD 1001 Unit 4 - L/S slope - Elderberries

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	05/18/2015 05/19/2015	Michael Pitta

LM Start	11.38	Rating **	M	Issue No.	53
LM End	11.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.798294 °	38.798294 °
				-121.631328 °	-121.631328 °
DWR ID	DWR_RD1001_04_s_2015_53				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	11.68	Rating **	M	Issue No.	1
LM End	11.85	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.795455 °	38.793394 °
				-121.629903 °	-121.628156 °
DWR ID	DWR_RD1001_04_f_2014_1				
Action/Comments					
Inspector Comments: 1997- Deposits over top of cobble on the upper slope. 2000 - Old cobble site in poor shape; some toe retreat, but little change; steep bank. 2010 - Site extended upstream due to new toe erosion. 2012 - Minor new erosion at toe, new slumping, animals holes and cracks observed. 2013: No observed changes. [2013 Site ID: FHR_0-6_L]					

Photo 1 of 1 : SP_2015_RD1001_38_1_20150401_00001.jpg



USACE 2013 Photo #1

LM Start	11.74	Rating **	M	Issue No.	54
LM End	11.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.793770 °	38.793770 °
				-121.627791 °	-121.627791 °
DWR ID	DWR_RD1001_04_s_2015_54				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	05/18/2015 05/19/2015	Michael Pitta

LM Start	12.32	Rating **	M	Issue No.	24
LM End	12.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.787355 °	38.786507 °
				-121.621165 °	-121.619837 °
DWR ID	DWR_RD1001_04_s_2012_24				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

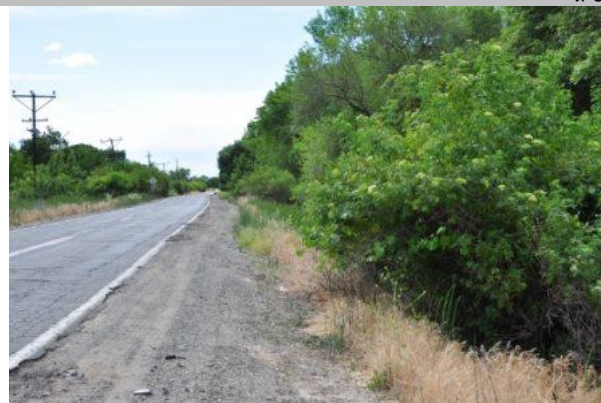
Photo 1 of 1 : SP_2015_RD1001_38_24_20150401_00019.jpg



RD 1001 Unit 4 - L/S slope - Elderberries

LM Start	12.65	Rating **	M	Issue No.	26
LM End	13.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.784513 °	38.781862 °
				-121.616045 °	-121.607855 °
DWR ID	DWR_RD1001_04_s_2012_26				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_RD1001_38_26_20150401_00022.jpg



RD 1001 Unit 4 - W/S slope - Elderberries

LM Start	12.67	Rating **	M	Issue No.	11
LM End	13.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.784579 °	38.782150 °
				-121.615689 °	-121.607918 °
DWR ID	DWR_RD1001_04_f_2013_11				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_RD1001_38_11_20150401_00009.jpg



RD 1001 Unit 4 - W/S slope - Elderberries

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	05/18/2015 05/19/2015	Michael Pitta

LM Start	12.69	Rating **	M	Issue No.	31
LM End	13.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.784536 °	38.781705 °
				-121.615401 °	-121.606908 °
DWR ID	DWR_RD1001_04_f_2014_31				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD1001_38_31_20150401_00027.jpg



This photo was taken from the levee crown facing north looking down the landward slope at vegetation that needs to be removed. Fall 2014.

LM Start	12.69	Rating **	M	Issue No.	32
LM End	13.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.784536 °	38.781706 °
				-121.615400 °	-121.606908 °
DWR ID	DWR_RD1001_04_f_2014_32				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD1001_38_32_20150401_00028.jpg



This photo was taken from the levee crown facing south looking down the waterward slope at vegetation that needs to be removed. Fall 2014.

LM Start	12.82	Rating **	M	Issue No.	151
LM End	12.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.783930 °	38.783930 °
				-121.612952 °	-121.612952 °
DWR ID	DWR_RD1001_04_s_2012_151				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP_2015_RD1001_38_151_20150401_00031.jpg



Trees need to be trimmed up at least 5 feet. Spring 2013

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	05/19/2015 05/19/2015	Michael Pitta

LM Start	0.01	Rating **	M	Issue No.	17
LM End	5.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.781376 °	38.831100 °
				-121.605361 °	-121.529742 °
DWR ID	DWR_RD1001_05_s _ 2015_17				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.01	Rating **	M	Issue No.	16
LM End	5.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.781377 °	38.831100 °
				-121.605361 °	-121.529742 °
DWR ID	DWR_RD1001_05_s _ 2015_16				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD1001_39_16_20150521_00018.jpg



View of the vegetation on the landside of the levee facing upstream.

LM Start	0.84	Rating **	A/W	Issue No.	18
LM End	0.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.794589 °	38.794589 °
				-121.590603 °	-121.590603 °
DWR ID	DWR_RD1001_05_s _ 2015_18				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : SP_2015_RD1001_39_18_20150521_00019.jpg



View of the cracks from erosion on the waterside of the levee facing upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	05/19/2015 05/19/2015	Michael Pitta

LM Start	2.31	Rating **	M	Issue No.	1
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.803877 °	38.804206 °
				-121.575053 °	-121.574529 °
DWR ID	DWR_RD1001_05_f_2014_1				
Action/Comments					
Inspector Comments: 2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011 - Erosion is into the top of the levee. This site is actually located at LM 2.5. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: NCC_3-0_R]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	05/19/2015 05/19/2015	Michael Pitta

LM Start	0.00	Rating **	M	Issue No.	15
LM End	4.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.831100 °	38.896363 °
				-121.529742 °	-121.520510 °
DWR ID	DWR_RD1001_06_s _ 2015_15				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD1001_40_15_20150521_00015.jpg



View of the vegetation on the landside of the levee facing upstream.

LM Start	0.00	Rating **	M	Issue No.	16
LM End	4.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.831110 °	38.896363 °
				-121.529723 °	-121.520510 °
DWR ID	DWR_RD1001_06_s _ 2015_16				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	1.38	Rating **	C	Issue No.	9
LM End	1.38	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.850300 °	38.850300 °
				-121.524388 °	-121.524388 °
DWR ID	DWR_RD1001_06_s _ 2013_9				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	05/19/2015 05/19/2015	Michael Pitta

LM Start	2.05	Rating **	M	Issue No.	8
LM End	2.05	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.860002 °	38.860002 °
				-121.524873 °	-121.524873 °
DWR ID	DWR_RD1001_06_s _ 2012_8				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Subsidence due to traffic across levee crown.					

Photo 1 of 1 : SP_2015_RD1001_40_8_20150401_00005.jpg



RD 1001 Unit 6 - Levee Crown - Subsidence due to vehicle traffic.

LM Start	2.92	Rating **	M	Issue No.	17
LM End	2.92	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.872524 °	38.872524 °
				-121.524808 °	-121.524808 °
DWR ID	DWR_RD1001_06_s _ 2015_17				
Action/Comments					
Debris					

No Photos

LM Start	4.04	Rating **	M	Issue No.	7
LM End	4.04	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.888821 °	38.888821 °
				-121.524733 °	-121.524733 °
DWR ID	DWR_RD1001_06_s _ 2012_7				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Levee crown subsided due to vehicle traffic across crown.					

Photo 1 of 1 : SP_2015_RD1001_40_7_20150401_00004.jpg



RD 1001 Unit 6 - Levee Crown - Subsidence due to vehicle traffic.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	05/19/2015 05/19/2015	Michael Pitta

LM Start	4.33	Rating **	M	Issue No.	19
LM End	4.33	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.893045 °	38.893045 °
				-121.524701 °	-121.524701 °
DWR ID	DWR_RD1001_06_f_2013_19				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Levee crown subsided due to vehicle traffic across crown.					

Photo 1 of 1 : SP_2015_RD1001_40_19_20150401_00006.jpg



This photo was taken from the levee crown facing north looking at subsidence due to vehicle traffic across crown. Fall 2013.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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